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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/505,451	09/01/2004	Tsuneo Noguchi	256917US3PCT	3202	
22850	7590 12/16/2005		EXAMINER		
OBLON, SP	IVAK, MCCLELLAN	CUEVAS, PEDRO J			
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
	,		2834		
			DATE MAIL ED: 12/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	- Ha		
		10/505,451	NOGUCHI, TSUNEO	1		
	Office Action Summary	Examiner	Art Unit			
		Pedro J. Cuevas	2834	•		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence addre)ss		
A SH WHIC - External afternal	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period of the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	N. mely filed n the mailing date of this comm ED (35 U.S.C. § 133).	·		
Status						
	Responsive to communication(s) filed on <u>01 S</u> This action is FINAL . 2b) This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		erits is		
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) <u>1-4</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-4</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>01 September 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	are: a) \square accepted or b) \square object drawing(s) be held in abeyance. Set ion is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). Dijected to. See 37 CFR	1.121(d).		
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/1/04, 5/9/05.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)		

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999).

The term "Raynolds number" in claims 1 and 2 is used by the claim to mean "Reynolds number", while the accepted meaning is "Reynolds number." The term is indefinite because the specification does not clearly redefine the term.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,463,257 A to Yea.

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Yea clearly teaches the construction of a wind power machine comprising:

a plurality of blades (22) at every constant angles centering on a vertical rotating shaft (21) in a face orthogonal to the vertical rotating shaft;

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wherein the blade is constituted by a blade type having a high lift coefficient, a low Reynolds number, and a notch portion (7) formed at a rear end portion of a lower face of the blade.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,463,257 A to Yea.

Yea discloses the claimed invention except for:

the Reynolds number falling in a range of 30,000 through 3,000,000;

the lift coefficient falling in a range of 1.0 through 1.4; and

the notch portion being formed from a position of 35% through 45% of a chord length from a front edge thereof over rear edge thereof.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to develop a blade with:

- a Reynolds number falling in a range of 30,000 through 3,000,000:
- a lift coefficient falling in a range of 1.0 through 1.4; and

the notch portion being formed from a position of 35% through 45% of a chord

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length from a front edge thereof over rear edge thereof;

since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro J. Cuevas December 9, 2005